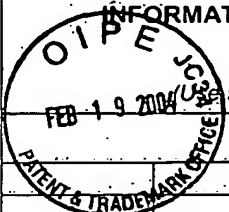
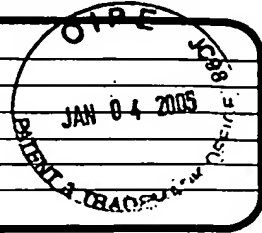


Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245		SERIAL NO. 10/660,738		
INFORMATION DISCLOSURE CITATION FEB 19 2004 (Use several sheets if necessary)				APPLICANT Egisto BOSCHETTI et al.				
				FILING DATE September 12, 2003		GROUP ART UNIT Not Yet Assigned		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
SH ↓	A1	4,381,239	04/26/1983	CHIBATA et al.				
	A2	4,701,500	10/20/1987	PORATH				
	A3	5,234,991	08/10/1993	TAYOT et al.				
	A4	5,652,348	07/29/1997	BURTON et al.				
	A5	5,185,313	02/09/1993	PORATH				
	A6	5,075,371	12/24/1991	BOSCHETTI et al.				
	A7	5,141,966	08/25/1992	PORATH				
	A8	5,268,097	12/07/1993	GIROT et al.				
	A9	5,719,060	02/17/1998	HUTCHENS et al.				
	A10	6,124,137	09/26/2000	HUTCHENS et al.				
	A11	2001/0045384		STIPANOVIC et al.			04/30/2001	
	A12	6,225,047	05/01/2001	HUTCHENS et al.				
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
SH ↓	A13	WO 95/31279	11/23/1995	WIPO				
	A14	WO 96/00735	01/11/1996	WIPO				
	A15	WO 03/064594	08/07/2003	WIPO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
SH	A16	G. H. SCHOLZ et al., "Salt-independent Binding of Antibodies from Human Serum to Thiophilic Heterocyclic Ligands", Journal of Chromatography B. vol. 709, pgs. 189-196 (1998).						
SH	A17	S. C. BURTON et al., "Hydrophobic Charge Induction Chromatography: Salt Independent Protein Adsorption and Facile elution with Aqueous Buffers", Journal of Chromatography a, vol. 814, pgs. 71-81 (1998).						
EXAMINER /Shafiqul Haq/				DATE CONSIDERED 06/02/2006				
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.								

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245		APPLN. NO. 10/660,738	
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT Egisto Boschetti et al.			
				FILING DATE September 12, 2003		GROUP ART UNIT Not Yet Assigned	
OTHER DOCUMENTS (cont'd)							
SH		A18	L. GUÉRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).				
↓		A19	É. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).				
		A20	BO-LÉNNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).				
		A21	BO-LÉNNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).				
EXAMINER /Shafiqul Haq/				DATE CONSIDERED 06/02/2006			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 4, 2005 <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number		10/660,738
			Filing Date		09/12/2003
			First Named Inventor		Egisto BOSCHETTI
			Group Art Unit		1754
			Examiner Name		Unassigned
Attorney Docket Number			035394-0245		
Sheet	1	of	1		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
SH	B1	5 563 056		BSI Corporation	10/8/1996	
SH	B2	2003/0008971		Chee-Youb WON et al.	1/9/2003	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
SH	B3	International Search Report of PCT/US2004/008210.	

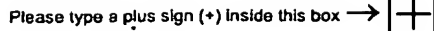
Examiner Signature	/Shafiqui Haq/	Date Considered	06/02/2006
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	10/660,738
Filing Date	September 12, 2003
First Named Inventor	Egisto Boschetti
Group Art Unit	1754
Examiner Name	Unassigned
Attorney Docket Number	441029/PALL

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

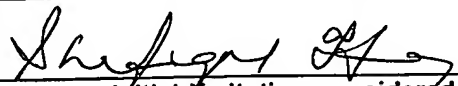
OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**

Examiner Signature	/Shafiqul Haq/	Date Considered	06/02/2006
--------------------	----------------	-----------------	------------

- * A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
- + An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245		SERIAL NO. 10/660,738		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Egisto BOSCHETTI et al.				
				FILING DATE September 12, 2003		GROUP ART UNIT Not Yet Assigned		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
SH	A1	4,381,239	04/26/1983	CHIBATA et al.				
	A2	4,701,500	10/20/1987	PORATH				
	A3	5,234,991	08/10/1993	TAYOT et al.				
	A4	5,652,348	07/29/1997	BURTON et al.				
	A5	5,185,313	02/09/1993	PORATH				
	A6	5,075,371	12/24/1991	BOSCHETTI et al.				
	A7	5,141,966	08/25/1992	PORATH				
	A8	5,268,097	12/07/1993	GIROT et al.				
	A9	5,719,060	02/17/1998	HUTCHENS et al.				
	A10	6,124,137	09/26/2000	HUTCHENS et al.				
	A11	2001/0045384		STIPANOVIC, et al.			04/30/2001	
	↓	A12	6,225,047	05/01/2001	HUTCHENS et al.			
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
SH	A13	WO 95/31279	11/23/1995	WIPO				
	A14	WO 96/00735	01/11/1996	WIPO				
	A15	WO 03/064594	08/07/2003	WIPO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
SH ↓	A16	G. H. SCHOLZ et al., "Salt-independent Binding of Antibodies from Human Serum to Thiophilic Heterocyclic Ligands", Journal of Chromatography B. vol. 709, pgs. 189-196 (1998).						
	A17	S. C. BURTON et al., "Hydrophobic Charge Induction Chromatography: Salt Independent Protein Adsorption and Facile elution with Aqueous Buffers", Journal of Chromatography a, vol. 814, pgs. 71-81 (1998).						
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 8/2/06				
* EXAMINER: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.								

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245		APPLN. NO. 10/660,738	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Egisto Boschetti et al.			
				FILING DATE September 12, 2003		GROUP ART UNIT Not Yet Assigned	
OTHER DOCUMENTS (cont'd)							
SA	A18	L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).					
	A19	E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).					
	A20	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).					
	A21	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).					
EXAMINER				DATE CONSIDERED			
				6/2/06			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							



Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	DOCKET NO. 035394-0245	SERIAL NO. 10/660,738
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Egisto BOSCHETTI et al.	
		FILING DATE September 12, 2003	GROUP ART UNIT Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
SH	A1	4,381,239	04/26/1983	CHIBATA et al.			
	A2	4,701,500	10/20/1987	PORATH			
	A3	5,234,991	08/10/1993	TAYOT et al.			
	A4	5,652,348	07/29/1997	BURTON et al.			
	A5	5,185,313	02/09/1993	PORATH			
	A6	5,075,371	12/24/1991	BOSCHETTI et al.			
	A7	5,141,966	08/25/1992	PORATH			
	A8	5,268,097	12/07/1993	GIROT et al.			
	A9	5,719,060	02/17/1998	HUTCHENS et al.			
	A10	6,124,137	09/26/2000	HUTCHENS et al.			
	A11	2001/0045384		STIPANOVIC et al.			04/30/2001
✓	A12	6,225,047	05/01/2001	HUTCHENS et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
SH ↓ ✓	A13	WO 95/31279	11/23/1995	WIPO				
	A14	WO 96/00735	01/11/1996	WIPO				
	A15	WO 03/064594	08/07/2003	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SH ↓ ✓	A16	G. H. SCHOLZ et al., "Salt-independent Binding of Antibodies from Human Serum to Thiophilic Heterocyclic Ligands", Journal of Chromatography B. vol. 709, pgs. 189-196 (1998).
	A17	S. C. BURTON et al., "Hydrophobic Charge Induction Chromatography: Salt Independent Protein Adsorption and Facile elution with Aqueous Buffers", Journal of Chromatography a, vol. 814, pgs. 71-81 (1998).

EXAMINER

DATE CONSIDERED

6/2/06

- * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.



Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245	APPLN. NO. 10/660,738																														
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Egisto Boschetti et al.																															
				FILING DATE September 12, 2003																															
GROUP ART UNIT Not Yet Assigned																																			
OTHER DOCUMENTS (cont'd)																																			
<table border="1"><thead><tr><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>SH</td><td>A18</td><td colspan="4">L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).</td></tr><tr><td></td><td>A19</td><td colspan="4">E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).</td></tr><tr><td></td><td>A20</td><td colspan="4">BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).</td></tr><tr><td>↓</td><td>A21</td><td colspan="4">BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).</td></tr></tbody></table>												SH	A18	L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).					A19	E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).					A20	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).				↓	A21	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).			
SH	A18	L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).																																	
	A19	E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).																																	
	A20	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).																																	
↓	A21	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).																																	
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 6/2/06																															
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.																																			